CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/Cube/2016-17 15.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Jagadish,** #3424, 6th cross, Gayathrinagar, Bangalore – 560 021.
* Name of the work	:	Improvements to drain at 1st main Havnoor Layout Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/20/2017-18 Dated: 10.04.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.05.2017

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2017	15.05.2017	8.264	498.1	22.14
2	17.04.2017	15.05.2017	8.158	485.6	21.58
3	17.04.2017	15.05.2017	8.397	512.3	22.77

*Information is furnished by the Customer/Representative.

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Note:

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VIDYARANI P.K.
Technical Manager

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Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.05.2017

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.04.2017	16.05.2017	8.396	529.8	23.55
2	18.04.2017	16.05.2017	8.257	517.2	22.99
3	18.04.2017	16.05.2017	8.175	503.4	22.37

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Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.04.2017	15.05.2017	8.269	495.7	22.03
2	17.04.2017	15.05.2017	8.384	513.8	22.84
3	17.04.2017	15.05.2017	8.475	521.6	23.18

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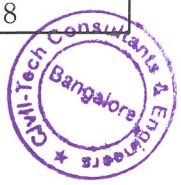

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.05.2017

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.04.2017	16.05.2017	8.169	500.6	22.25
2	18.04.2017	16.05.2017	8.284	514.8	22.88
3	18.04.2017	16.05.2017	8.375	523.7	23.28

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Job No.: CTCE/BBMP/KJ/W.No.14/CSR-04/317d/Pre Slab/2016-17 21.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Jagadish,** #3424, 6th cross, Gayathrinagar, Bangalore – 560 021.
* Name of work	:	Improvements to drain at 1st main Havnoor Layout Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/20/2017-18 Dated: 10.04.2017
* Sample ID	:	Precast Slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	17.04.2017
Date of Testing	:	21.04.2017

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Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.386	2520.36	1.56	0.952	31.40	15.99	17.27	18.13	22.67
2	50.00	80.00	0.397	2527.38	1.60	0.957	32.55	16.58	17.90	17.13	21.41
3	50.00	81.00	0.402	2527.62	1.62	0.959	33.70	17.16	18.54	17.78	22.22

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